

SABIC Innovative Plastics LNP LUBRICOMP RFL36S PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Lubricomp* RFL36S is a compound based on Nylon 66 resin containing Glass Fiber, PTFE. Added features of this material include:
Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36S-PA-66-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|------------------------------|
| Density | 1.49 g/cc | 0.0538 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0040 cm/cm | 0.0020 - 0.0040 in/in | on Tensile Bar; SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 159 MPa | 23100 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.1 % | 3.1 % | 5 mm/min; ISO 527 |
| Flexural Strength | 235 MPa | 34100 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 8.20 GPa | 1190 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Unnotched (ISO) | 80.0 kJ/m ² | 38.1 ft-lb/in ² | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 23.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 12.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | $\geq 220 \text{ Å}^\circ\text{C}$ | $\geq 428 \text{ Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa (264 psi) | $\geq 220 \text{ Å}^\circ\text{C}$ | $\geq 428 \text{ Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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